



# A Workshop

to Explore Collaborative Interdisciplinary Research

## on

# Diabetes Mellitus

**December 13 (Saturday), 2014, 09:00 – 13:30**

**Venue:** A. R. Auditorium, Third Floor, Mechanical Engineering  
Indian Institute of Science, Bengaluru

**Bioengineering Programme, Indian Institute of Science**

### Schedule of Talks

09:00	Welcome, overview, and introductions	Prof. G. K. Ananthasuresh (ME, IISc) Prof. Sandhya Visweswariah (MRDG, IISc)
09:05	Clinician Perspectives on Diabetes Research	Dr. Mala Dharmalingam, Professor of Endocrinology, M. S. Ramaiah Memorial Hospital
09:20	Cardiovascular Complications in Diabetes	Dr. Nagamallesh, Professor of Cardiology, M. S. Ramaiah Hospital
09:40	Understanding Pathophysiology of Diabetic Cardiomyopathy	Prof. Ravi Sundaresan (MCB, IISc)
10:00	Pathogenetic Mechanisms in Diabetes	Dr. Sarah Rani Marcus, Professor of Biochemistry, M. S. Ramaiah Hospital
10:20	Point-of-care Sensors for Diabetes Management	Prof. Navakanta Bhat (CeNSE, IISc)
10:40	Beta Cell in Diabetes	Dr. Subramanian Kannan, Endocrinologist, Narayana Hridayalaya
11:00	Patient-customized Insulin Delivery using Adaptive Feedback	Prof. Radhakant Padhi (Aerospace, IISc)
11:20	<b>Coffee and snack break</b>	
11:35	Fibroblasts in Diabetic Wound Infection	Dr. Veena Prabhakar, Plastic Surgeon M. S. Ramaiah Hospital
11:55	Free Radicals, Inflammation, and Diabetes—the Unholy Trinity	Prof. Deepak Saini (MRDG, IISc)
12:15	Diabetes in South Asians: How are We Different?	Dr. Chitra S., Endocrinologist M. S. Ramaiah Hospital
12:35	Stem Cell-based Tissue Engineering Strategy for Diabetes Treatment	Prof. Bikramjit Basu (MRC, IISc)
12:55	Genetics in Type 2 Diabetes: Indian Perspective	Dr. Vivek Mathews, Endocrinologist St. Johns Hospital
13:15	Microneedles and Micropumps for Drug Delivery	Prof. K. Rajanna (IAP, IISc)

*All are invited.*